

Danpl-CRY2	PVKQNNYDFKALTLNLNKFSNEPLTFLNQTTPNKNESFGQDVNNVIDVYSTSKPKFYFTDN
Tal-CRY2	-----
Ep-CRY2	-----
Bomte-CRY1	-----

Danpl-CRY2	GVITHNENAQTFKRDSYSDNYNKESTGSNRVGEVHSNNPQTDKISSEKKN
Tal-CRY2	-----
Ep-CRY2	-----
Bomte-CRY1	-----

Figure S1. Putative *Talitrus saltator* CRYPTOCHROME 2 (CRY2) protein

Alignment of *Danaus plexippus* CRY2 (Danpl-CRY2; Accession No. ABA62409) with the *T. saltator* CRY2 (Tal-CRY2) deduced from homology cloning, together with the top two tblastn species homologue sequences *Eurydice pulchra* CRY2 (Ep-CRY2; Accession No. KC885970) and *Bombus terrestris* cryptochrome-1-like (Bomte-CRY1; Accession No. XM_012312885). '*' indicates identical amino acid residues in the two proteins, '.' and ':' indicate similar amino acid residues between the two proteins. In this figure SMART identified domains of one DNA photolyase domain and one FAD binding 7 domain are highlighted in yellow and green respectively.